BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:- Modified Estimate for Providing and fixing Children play equipment near Allalasandra Lake in ward No.04 and Pattenahalli Lake in Chowdeshwari Ward No.02.

MODIFIED ESTIMATE

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate	Amount
1	KSRDB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification, MORTH / Chapter 3 (P.No.143, I.No.19.1 of PW, P&IWTD SR 2018-19)								
	For Parks	Cum							
	For Gym Platform		2	11.10	14.00	0.30	93.24		
	For Children's Equipment		1	20.00	12.00	0.30	72.00		
	Pathway		1	96.00	2.50	0.20	48.00		
	Pathway		1	113.00	3.10	0.20	70.06		
	For Gym Equipment Post		22	0.60	0.60	0.60	4.75		
	For Children's Equipment Post		23	0.60	0.60	0.60	4.97		
	Chain Link Fencing								
	Post for Chain Link fencing		22	0.60	0.60	0.60	4.75		
	Deduction								
	For Gym Equipment Post		-22	0.60	0.60	0.30	-2.38		
	Acupuncture footpaths		1	33.00	2.60	0.30	25.74		
							321.14	222.36	**71407.26**
	Approved Rate	222.36							
2	KSRDB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. MORTH Specification No. 2100 (P.No.222, I.No.27.18 of PW,P&IWTD S.R 2018-19)								
	For Bed Concrete	Cum							
	For Gym Platform		2	11.10	14.00	0.15	46.62		
	For Gym Equipment Post		22	0.60	0.60	0.15	1.19		
	Chain Link Fencing								
	Post for Chain Link Fencing		22	0.60	0.60	0.15	1.19		
	For Children's Equipment Post		23	0.60	0.60	0.15	1.24		
	For Acupuntuure FoothPath		1	33.00	2.60	0.15	12.87		
	Pathway PCC								
	Pathway 1								
	CH: 00.00 to 30.00		1	30.00	2.50	0.20	15.00		

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	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate	Amount
	CH: 30.00 to 60.00		1	30.00	2.50	0.20	15.00		
	CH: 60.00 to 90.00		1	30.00	2.50	0.20	15.00		
	CH: 90.00 to 96.00		1	6.00	2.50	0.20	3.00		
	Pathway 2								
	CH: 00.00 to 30.00		1	30.00	3.10	0.20	18.60		
	CH: 30.00 to 60.00		1	30.00	3.10	0.20	18.60		
	CH: 60.00 to 90.00		1	30.00	3.10	0.20	18.60		
	CH: 90.00 to 113.00		1	23.00	3.10	0.20	14.26		
	Kerb PCC								
	Gym Platform		2	50.00	0.20	0.10	2.00		
	Children Play Area		2	20.00	0.20	0.10	0.80		
	Pathway 1		2	96.00	0.20	0.10	3.84		
	Pathway 2		2	113.00	0.20	0.10	4.52		
	For Trees 43 Nos		301	0.45	0.20	0.10	2.71		
	Approved Rate	**5692.45**					**195.04**	5692.45	**1110238.92**
3	KSRRB M2200-5.9. Providing and laying Design mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 including cost of materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. - i) Upto 5 m height.(P.No.227, I.No.28.7.9 of PW, P&IWTD SR 2018-19)								
	M20Concrete for Posts	Cum							
	For Gym Equipment Post		22	0.60	0.60	0.50	3.96		
	Post for Chain Link Fencing		22	0.50	0.50	0.30	1.65		
	For Children's Equipment Post		23	0.60	0.60	0.50	4.14		
	Approved Rate	**5757.00**					**9.75**	5757.00	**56130.76**
4	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No. 4.6 of PW, P&IWTD SR2017-18)								
	Embeded of Pebble Stone in Concrete	Cum							
	For Acupunture FoothPath		1.00	33.00	2.60	0.20	17.16		
	Approved Rate	**6034.11**					**17.16**	6034.11	**103545.35**

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	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate	Amount
							590.30	1171.88	691759.22
	Approved Rate	1171.88							
9	KSRRB 2.6 Providing and filling Sand in trenches to required depth including watering ramming with all loads and lift, complete as per specification and as directed by Engineer-in-charge (P.No.7, I No 2.13 of PW,P&IWTD SR 2018-19)								
	Sand Filling for Children Play area	Cum							
	For Children's Equipment		1	20.00	11.40	0.45	102.60		
							102.60	2292.56	235216.82
	Approved Rate	2292.56							
10	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. (P.No 27 of I.No 5.30 in PW,P&IWTD SR 2018-19)								
	Kerb	No.							
	Gym Platform All Round		2	50.00	--	/0.45	222.00		
	Children Play Area 2 sides		2	20.00	--	/0.45	89.00		
	Pathway 1		2	113.00	--	/0.45	502.00		
	Pathway 2		2	96.00	--	/0.45	427.00		
	Accupunture Footpath		1	66.00	--	/0.45	147.00		
	For Trees 43 Nos (43x7)=301						301.00		
	Approved Rate	454.06					1688.00	454.06	766454.55
11	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No.180, litem no.24.1 of KPWD S.R Bangalore Circle 2018-2019)								
	Kerb Paint	Sqm							
	Gym Platform		2	50.00	--	0.35	35.00		
	Children Play Area		2	20.00	--	0.35	14.00		
	Pathway 1		2	113.00	--	0.35	79.10		
	Pathway 2		2	96.00	--	0.35	67.20		
	Accupunture Footpath		1	66.00	--	0.40	26.40		
	For Trees 43 Nos		310	0.45	--	0.35	48.83		
	Approved Rate	89.03					270.53	89.03	24085.25

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	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate	Amount
12	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint (P.No 266 of I.No.37.3 in PW,P&IWTD SR 2018-19)								
		Sqm							
	Chain Link Fencing 1		1	21.50		1.80	38.70		
	Chain Link Fencing 2		1	27.50		1.80	49.50		
							88.20	795.72	70182.43
	Approved Rate	**795.72**							
13	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) (P No 266 of I.No.37.2 in PW,P&IWTD SR 2018-19)								
	Rectangular Pole	**M**							
	Chain Link Fencing 1		11	2.50			27.50		
	Chain Link Fencing 2		14	2.50			35.00		
							62.50	955.98	59748.50
	Approved Rate	**955.98**							
14	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint. (P.No.266 I.No.37.4 of PW,P&IWTD SR of 2018-19)								
	Horizontal Pipe for Chain Link Fencing	**m**							
	Chain Link Fencing 1		3	21.50			64.50		
	Chain Link Fencing 2		3	27.50			82.50		
							147.00	454.06	66746.93
	Approved Rate	**454.06**							
15	Providing and fixing M.S.Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members as Shown in the drawing etc., complete all the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specification. ((P 42/ I.7.37) PW,P & IWTD SR -2018-19)								
	Main Gate for Park	**Sqm**							
		1	1	1.50		1.80	2.70		
							2.70	3352.04	9050.50
	Approved Rate	**3352.04**							

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	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate	Amount
	KSRD 15.38.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complate as per specifications.(P 120/ 3.15.74 DS,P & BATD SR - 2018-19)								
	Painting of Metal Surface	Sqm							
	Main Gate for Park						0.00	105.72	0.00
	Approved Rate	105.72							
37	Direction and Place Identification Signs with size morethan 0.9 sqm Size Board: Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm , 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 cm, 60 cm below ground level as per approved drawing. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work								
		Sqm					0.00	7934.93	0.00
	Approved Rate	7934.93							
	GYM EQUIPMENTS								
18	Supply & fixing of Pull Down Challenger : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 2570 MM x 840 MM x 2200 MM . Capacity 2 persons								
	PULL DOWN CHALLENGER	Unit							
		Nos	2				2.00		

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	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m			
							2.00	310770.40	621540.80
19	Supply & fixing of Seated Chest Press : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1955 MM x 730 MM x 1955 MM . Capacity 2 persons									
	SEATED CHEST PRESS	Unit							
		Nos	2				2.00		
							2.00	301846.25	**603692.50**
20	Supply & fixing of Self Weighted Rower : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1390 MM x 805 MM x 1198 MM . Capacity 1 person									
	SELF WEIGHTED ROWER	Unit							
		Nos	2				2.00		

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	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate	Amount
							2.00	216541.88	433083.75
21	Supply & fixing of Rider : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 910 MM x 655 MM x 1210 MM . Capacity 1 person								
	RIDER	Unit					2.00		
		Nos	2						
							2.00	118113.75	236227.50
22	Supply & fixing of Bicycle : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1000 MM x 500MM x 1290MM . Capacity 1 person								
	BICYCLE	Unit							
		Nos	2				2.00		
							2.00	164046.88	328093.75

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	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate	Amount
23	Supply & fixing of Arm & Pedal bike : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecessive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 830 MM x 500MM x 1450 MM , Capacity 1 person								
	ARM & PEDAL BIKE	Unit							
		Nos	2				2.00		
							2.00	223103.75	446207.50
24	Supply & fixing of Tai Chi Spinners : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecessive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1150 MM x 1120 MM x 1620 MM , Capacity 2 persons								

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	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate	Amount
	LAUGHSPINNER'S	Unit							
		Nos	2				2.00		
							2.00	150923.13	301846.25
25	Supply & fixing of Big Shoulder Wheel : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecessive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 845 MM x 810MM x 1710MM , Capacity 2 persons								
	BIG SHOULDER WHEEL	Unit							
		Nos	2				2.00		
							2.00	157485.00	314970.00
26	Supply & fixing of HD Double Health Walker :All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out in excess of at least 50 public park projects in India either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Footplates made of alloys of Nylon having good thermal stability. Internal Limited means no bump stops or crush points. Bearings : Maintenance-free ball bearings. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 2015 MM x 615 MM x 1360 MM , Capacity 2 persons								

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	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m			
	HD DOUBLE HEALTH WALKER	Unit							
		Nos	2				2.00		
							2.00	310770.40	621540.80
27	Supply & fixing of HD Sit Up Station : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1365 MM x 1335 MM x 700 MM . Capacity 2 persons								
	HD SIT UP STATION	Unit							
		Nos	2				2.00		
							2.00	164046.88	328093.75

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	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate	Amount
28	supply & fixing of HD Squat Pushing : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 2270 MM x 635 MM x 1640 MM . Capacity 2 persons								
	HD SQUAT PUSHING	Unit							
		Nos	2				2.00		
							2.00	282160.63	**564321.25**
	CHILDREN'S PLAY EQUIPMENT								
29	Supply and fixing of childern Multi Play Equipment with curved slide and number panel : Upright structural posts of height 2.4 m, 2.7 m, 3.3 m schedule HOT DIP Galvanized steel with a 114mm OD and 2.2mm (wall) thickness of the tubing. All metal components are to be finished with a baked on powder coat finish.With deck of size 1.45 x 1.45m and Staircase of size 1.5m x 0.77 m are fabricated from 2mm perforated solid punched steel. Deck perimeter is precision pre punched for attachments. Decks are pressed, punched, and welded sand blasted and vinyl plastic coated to a thickness of 4mm. Along with Handrail of height 2.2 m and Dia 32 mm shall be an all-robotic welded unit, fabricated from 32 O.D. galvanized steel pipes with a baked on powder coating finish.Curved Slide of size 1.94 m x 1.85 m x 2.4 m, Panels,Toprails Of Monkey loop of size 1.8 m x 1.3 m.Deck of size 1.45 x 1.45m are fabricated from 2mm perforated solid punched steel. Deck perimeter is precision pre punched for attachments. Decks are pressed, punched, and welded sand blasted and vinyl plastic coated to a thickness of 4mm. Roof of size Dia 2 m and height 0.82 m, Spiral Slide of size 1.16 m x 1.6 m x 3.6 m, Panels The rates are to be inclusive of supply and installation at site.								
	SCARBOROUGH - E	Unit							
		Nos	1				1.00		
							1.00	2311139.62	**2311139.62**

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	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate	Amount
	Supply and fixing of Children Play Equipment Monker Bar VFM								
	support posts of height 1.82 m are to be schedule Galvanized steel with a 60 mm OD [Outer								
	Diameter] All the posts are to be finished with a baked on powder coat finish. Handrail of size 1.3 m								
	and Dia 48 mm shall be an welded unit, fabricated from 48 O.D. galvanized steel pipes with a baked								
	on powder coating finish. Bolts, nuts, screws, washers and etc used for assembly shall be stainless								
	steel 304 grade and shall be of tamper resistant stainless steel. Electro - statically applied polyester								
	powder must have a tough finish with maximum durability. The rates are to be inclusive of supply								
	and installation at site.								
	MONKEY BAR VFM	Unit					2.00		
		Nos	2						
							2.00	99436.03	198872.06
31	Supply and fixing of children Play Equipment Fiero A Swing :								
	Shaped structural posts of height 2.31 m are to be schedule HOT DIP Galvanized steel with a								
	114mm OD and 2.2mm (wall) thickness of the tubing. Plastic Components such as swing seats								
	[super thick plastic] shall be animated and shall be rotationally molded from antistatic, copolymer,								
	virgin linear low density UV stabilized polyethylene, with color molded in and minimum thickness								
	of 6 - 8mm. The rates are to be inclusive of supply and installation at site.								
	FIERO A SWING	Unit					2.00		
		Nos	2						
							2.00	133223.91	266447.82
32	Supply and fixing of children Play Equipment Four Seater Seesaw :								
	SPECIFICATIONS The See Saw consists of 2 poles of Dia 114mm and thickness of 2.5mm which								
	balances the horizontal rod at the center which is of size 3110 mm length and Dia 114 mm. It consists								
	of 4 seats which is made of ULDPE virgin plastic of size 305mm X 213 mm X 125 mm. The rates are								
	to be inclusive of supply and installation at site.								
	FOUR SEATER SEESAW	Unit					2.00		
		Nos	2						
							2.00	112591.28	225182.55
E1	KSREB 200-8. Clearing and grubbing road land including uprooting rank vegetation, grass, brush,								
	shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light jungle, removal of								
	stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges								
	complete as per specifications. MORTH / Chapter 2(P-138/18.11)								
	Singanayakanahalli School Ground	Sqm							
	As per survey drawing						13543.00		
							13543.00	11.13	150719.23
	Basic rate	10.00							
	Area Weightage 6%	0.60							
	Amount	10.60							
	Add TP 4.99%	0.53							
	Total	11.13							

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	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m			
12	Removal of Unserviceable Soil with Disposal KSRRB M300-19. Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications. MORTH Specification No. 301(Page No.144 Item No 19.20 of KPWD S.R 2018-19)								
	Singanayakanahalli School Ground	Cum							
	As per survey drawing						9443.29		
							9443.29	63.60	600621.03
	Basic rate	33.00							
	Area Weightage 6%	1.98							
	With 10Km Lead 2.0x1.28x10=25.60	25.60							
	Amount	60.58							
	Add TP 4.99%	3.02							
	Total	63.60							
							Total Construction Cost		12563183.55
							Miscellaneous		2618.38
							Total Approved Amount		12565801.94

AE
Project Division

AEE
Project Division

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

EE
Project Division

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

Technical Sanction
Accorded For Rs. 12565801.94
Head of A/C. P.3550
CER NO : 71 Dt: 01/02/2024

TA CE (YNK)

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